

Project Name: RCRA Voluntary CA

SOIL BORING: VE531

Project No: 100.58.19

Location: West Side of I-71 Southbound

Project Location: Norwood, Ohio

Start Date: 8/9/04

Client Name: EMD Chemicals Inc.

Completion Date: 8/9/04

Depth (ft.)	Elevation (ft. msl)	Temporary Monitoring Well Completion Details	Lithologic Symbol	Lithologic Description	Core Recovery (%)	Sample Type	SPT Tons/Sq. Ft.			
							1	2	3	4
0	588			Surface Grade						
1	587			FILL silt and clay, little sand (fine to coarse) and gravel, brown mottled light gray and orange and light green and black, moist, firm to stiff		G				
2	586			asphalt fragments		G				
3	585									
4	584									
5	583					G				
6	582			red brick fragments dark gray mottled black and orange and dark brown and light green		G				
7	581									
8	580									
9	579			brown mottled light gray and orange and light green and dark gray dark gray mottled black and orange and dark brown and light green, red brick fragments trace cobbles, brown mottled light green and orange and light green and dark gray		G				
10	578									
11	577									
12	576									
13	575					G				
14	574			wood fragments						
15	573			asphalt fragments						
16	572									
17	571					G				
18	570									
19	569									
20	568									

Total Depth (ft.): 52.0

Screen interval (ft. bgs): 25.0-30.0

Ground Surface (ft. msl): 587.99

Easting (X): 1420070.24

Northing (Y): 429863.80

Drilling Firm: EnviroCore

Drilling Method: Direct-Push

Top of Casing (ft. msl): 587.99

Date Sampled: 8/16/04

Geologist: A.L. Hurley

**THE PAYNE FIRM, INC.**

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Project Name: RCRA Voluntary CA

SOIL BORING: VE531

Project No: 100.58.19

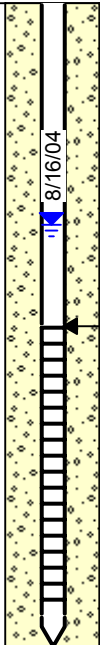
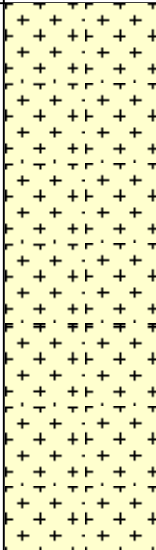

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Project Location: Norwood, Ohio

Start Date: 8/9/04

Client Name: EMD Chemicals Inc.

Completion Date: 8/9/04

Depth (ft.)	Elevation (ft. msl)	Temporary Monitoring Well Completion Details	Lithologic Symbol	Lithologic Description	Core Recovery (%)	Sample Type	SPT Tons/Sq. Ft.			
							1	2	3	4
21	567	 1" PVC Screen		Same as above.		G				
22	566					G				
23	565									
24	564					G				
25	563			VOC water sample 25.0'-30.0'						
26	562									
27	561									
28	560									
29	559			SILT and CLAY olive gray mottled brown, moist, firm (LOWER CLAY UNIT)						
30	558			CLAY olive gray mottled brown, moist, soft, high plasticity		G				
31	557			SILT and CLAY olive gray						
32	556			olive gray, moist, firm, high plasticity		G				
33	555									
34	554					G				
35	553									
36	552									
37	551			trace gravel		G				
38	550									
39	549									
40	548									

Total Depth (ft.): 52.0

Screen interval (ft. bgs): 25.0-30.0

Ground Surface (ft. msl): 587.99

Easting (X): 1420070.24

Northing (Y): 429863.80

Drilling Firm: EnviroCore

Drilling Method: Direct-Push

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Date Sampled: 8/16/04

Geologist: A.L. Hurley

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Project No: 100.58.19

Location: West Side of I-71 Southbound

Project Location: Norwood, Ohio

Start Date: 8/9/04

Client Name: EMD Chemicals Inc.

Completion Date: 8/9/04

Depth (ft.)	Elevation (ft. msl)	Temporary Monitoring Well Completion Details	Lithologic Symbol	Lithologic Description	Core Recovery (%)	Sample Type	SPT Tons/Sq. Ft.			
							1	2	3	4
41	547			Same as above. less gravel content		G				
42	546									
43	545									
44	544									
45	543					G				
46	542			SILT and CLAY increasing gravel content (still trace gravel)						
47	541									
48	540			SILT and CLAY olive gray, laminations, moist, medium stiff (LACUSTRINE-2 ZONE)		G				
49	539									
50	538									
51	537			trace sand (fine to coarse) and gravel and cobbles, olive gray, slightly moist, hard (LOWER TILL UNIT)						
52	536									
53	535			52 feet below grade - End of Borehole						
54	534									
55	533									
56	532									
57	531									
58	530									
59	529									
60	528									

Total Depth (ft.): 52.0

Screen interval (ft. bgs): 25.0-30.0

Ground Surface (ft. msl): 587.99

Easting (X): 1420070.24

Northing (Y): 429863.80

Drilling Firm: EnviroCore

Drilling Method: Direct-Push

Top of Casing (ft. msl): 587.99

Date Sampled: 8/16/04

Geologist: A.L. Hurley

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Project Name: RCRA Voluntary CA

SOIL BORING: VE532

Project No: 100.58.19

Location: West Side of I-71 Northbound

Project Location: Norwood, Ohio

Start Date: 8/9/04

Client Name: EMD Chemicals Inc.

Completion Date: 8/9/04

Depth (ft.)	Elevation (ft. msl)	Temporary Monitoring Well Completion Details	Lithologic Symbol	Lithologic Description	Core Recovery (%)	Sample Type	SPT Tons/Sq. Ft.			
							1	2	3	4
0	570			Surface Grade						
1				FILL silt and clay, little sand (fine to coarse) and gravel, brown mottled light gray and orange and light green and black, moist, stiff to hard		G				
2	569									
3	568									
4	567									
5	566			wood fragments						
6	565			4.5'-6.0' - black staining		G				
7	564									
8	563									
9	562									
10	561			firm		G				
11	560			brick fragments						
12	559			asphalt fragments						
13	558									
14	557			stiff to hard		G				
15	556									
16	555			firm						
17	554									
18	553					G				
19	552									
20	551			sand (fine to coarse), little clay, brown, moist, medium dense, sub-rounded, poorly sorted						

Total Depth (ft.): 36.0

Screen interval (ft. bgs): 21.0-26.0

Ground Surface (ft. msl): 570.39

Easting (X): 1420345.82

Northing (Y): 429785.75

Drilling Firm: EnviroCore

Drilling Method: Direct-Push

Top of Casing (ft. msl): 570.39

Date Sampled: 8/13/04

Geologist: A.L. Hurley

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Project Name: RCRA Voluntary CA

SOIL BORING: VE532

Project No: 100.58.19

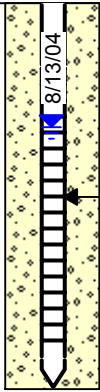
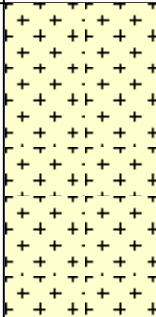

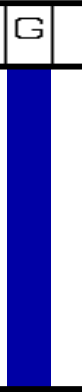
Location: West Side of I-71 Northbound

Project Location: Norwood, Ohio

Start Date: 8/9/04

Client Name: EMD Chemicals Inc.

Completion Date: 8/9/04

Depth (ft.)	Elevation (ft. msl)	Temporary Monitoring Well Completion Details	Lithologic Symbol	Lithologic Description	Core Recovery (%)	Sample Type	SPT Tons/Sq. Ft.			
							1	2	3	4
21	550	 1" PVC Screen		Same as above. sand (fine to coarse) and gravel, brown, moist, loose, sub-angular, poorly sorted VOC water sample 21.0'-26.0'						
22	549									
23	548									
24	547			wet						
25	546									
26	545			SILT and CLAY trace gravel, olive gray, moist, firm, high plasticity (LOWER CLAY UNIT)						
27	544									
28	543									
29	542									
30	541									
31	540									
32	539									
33	538			SILT and CLAY olive gray, laminations, moist, medium stiff (LACUSTRINE-2 ZONE)						
34	537			SAND medium, light gray, slightly moist, loose, well rounded, well sorted						
35	536			SILT and CLAY trace sand (fine to coarse) and gravel, olive gray, slightly moist, hard (LOWER TILL UNIT)						
36	535									
37	534			36 feet below grade - End of Borehole						
38	533									
39	532									
40	531									

Total Depth (ft.): 36.0

Screen interval (ft. bgs): 21.0-26.0

Ground Surface (ft. msl): 570.39

Easting (X): 1420345.82

Northing (Y): 429785.75

Drilling Firm: EnviroCore

Drilling Method: Direct-Push

Top of Casing (ft. msl): 570.39

Date Sampled: 8/13/04

Geologist: A.L. Hurley

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Project Name: RCRA Voluntary CA

SOIL BORING: VE533

Project No: 100.58.19

Location: East Side of I-71 Northbound

Project Location: Norwood, Ohio

Start Date: 8/10/04

Client Name: EMD Chemicals Inc.

Completion Date: 8/10/04

Depth (ft.)	Elevation (ft. msl)	Temporary Monitoring Well Completion Details	Lithologic Symbol	Lithologic Description	Core Recovery (%)	Sample Type	SPT Tons/Sq. Ft.			
							1	2	3	4
0	571			Surface Grade						
1	570		FILL silt and clay, trace sand (fine to coarse) and gravel, brown mottled orange and black, moist, stiff to hard		G					
2	569									
3	568									
4	567			VOC water sample 4.0'-9.0'						
5	566									
6	565			silt, brown mottled orange and olive gray, wet, medium dense, well rounded, well sorted						
7	564			SILT and CLAY olive gray mottled brown, moist, firm, high plasticity (LOWER CLAY UNIT) very moist						
8	563									
9	562			CLAY olive gray, moist, soft to firm, high plasticity very moist moist very moist moist						
10	561					G				
11	560									
12	559			SILT and CLAY olive gray, moist, firm, high plasticity						
13	558					G				
14	557			trace gravel						
15	556									
16	555									
17	554					G				
18	553									
19	552									
20	551									

Total Depth (ft.): 36.0

Screen interval (ft. bgs): 4.0-9.0

Ground Surface (ft. msl): 570.85

Easting (X): 1420560.84

Northing (Y): 429716.31

Drilling Firm: EnviroCore

Drilling Method: Direct-Push

Top of Casing (ft. msl): 570.85

Date Sampled: 8/13/04

Geologist: A.L. Hurley

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Project Name: RCRA Voluntary CA

SOIL BORING: VE533

Project No: 100.58.19





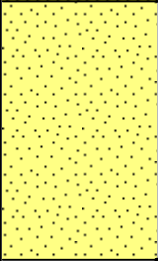
Location: East Side of I-71 Northbound

Project Location: Norwood, Ohio

Start Date: 8/10/04

Client Name: EMD Chemicals Inc.

Completion Date: 8/10/04

Depth (ft.)	Elevation (ft. msl)	Temporary Monitoring Well Completion Details	Lithologic Symbol	Lithologic Description	Core Recovery (%)	Sample Type	SPT Tons/Sq. Ft.			
							1	2	3	4
21	550			Same as above. no gravel trace gravel		G				
22	549									
23	548									
24	547					G				
25	546									
26	545			little gravel						
27	544									
28	543									
29	542									
30	541									
31	540					G				
32	539									
33	538			SAND medium, light gray, slightly moist, loose, well rounded, well sorted						
34	537									
35	536									
36	535									
37	534			36 feet below grade - End of Borehole						
38	533									
39	532									
40	531									

Total Depth (ft.): 36.0

Screen interval (ft. bgs): 4.0-9.0

Ground Surface (ft. msl): 570.85

Easting (X): 1420560.84

Northing (Y): 429716.31

Drilling Firm: EnviroCore

Drilling Method: Direct-Push

Top of Casing (ft. msl): 570.85

Date Sampled: 8/13/04

Geologist: A.L. Hurley

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Project Name: RCRA Voluntary CA

SOIL BORING: VE534

Project No: 100.58.19

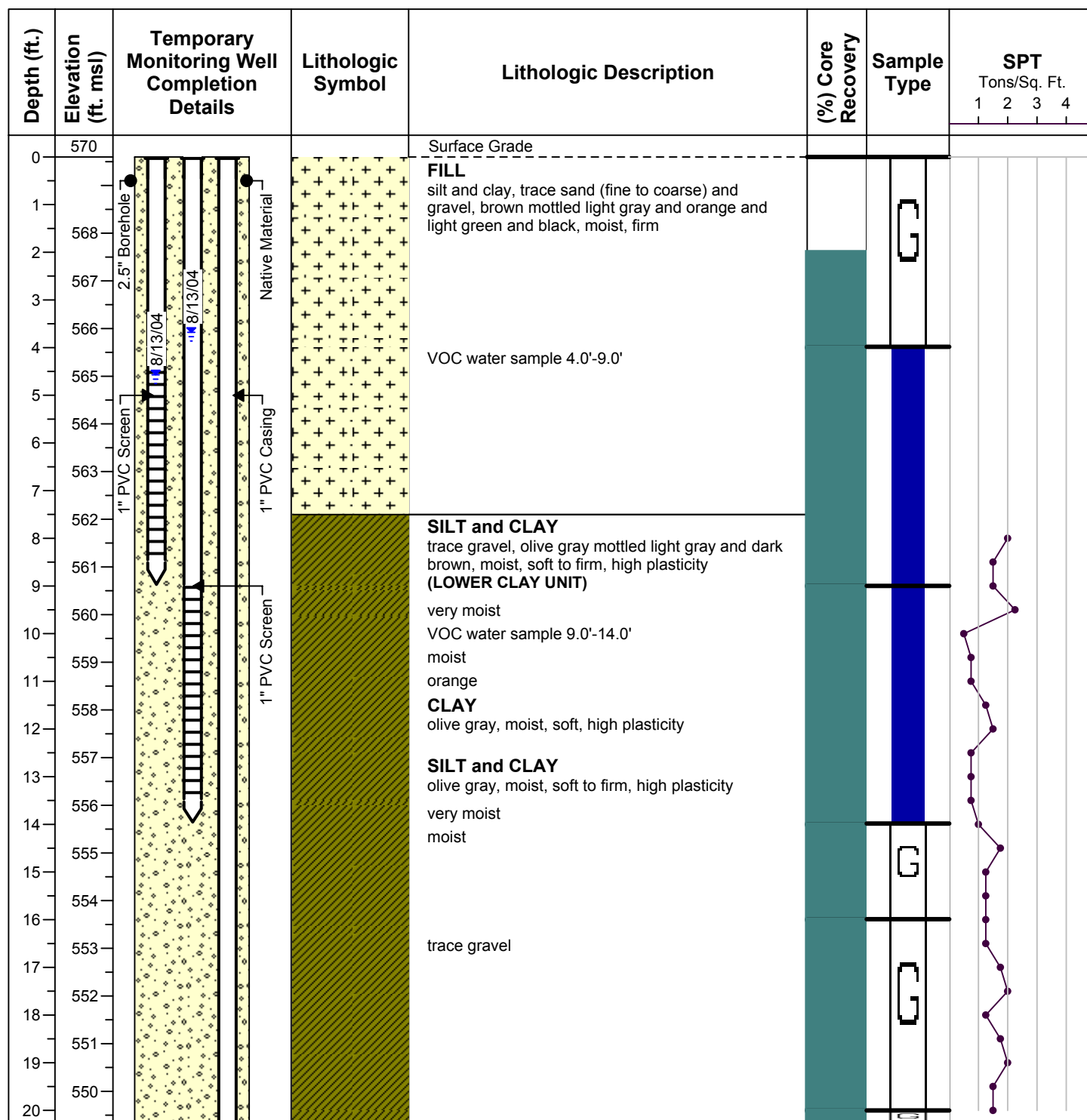
Location: East Side of I-71 Northbound

Project Location: Norwood, Ohio

Start Date: 8/10/04

Client Name: EMD Chemicals Inc.

Completion Date: 8/10/04



Total Depth (ft.): 36.0

Screen interval (ft. bgs): 4-9,9-14,26-31

Ground Surface (ft. msl): 569.60

Easting (X): 1420698.72

Northing (Y): 429760.53

Drilling Firm: EnviroCore

Drilling Method: Direct-Push

Top of Casing (ft. msl): 569.60

Date Sampled: 8/13/04

Geologist: A.L. Hurley

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Project Name: RCRA Voluntary CA

SOIL BORING: VE534

Project No: 100.58.19

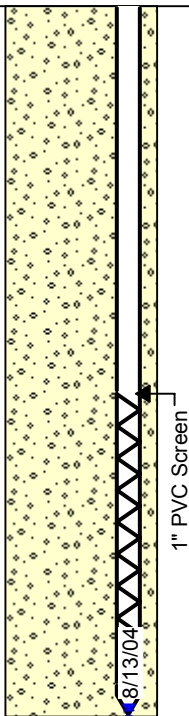





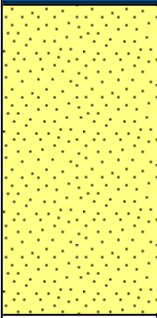

Location: East Side of I-71 Northbound

Project Location: Norwood, Ohio

Start Date: 8/10/04

Client Name: EMD Chemicals Inc.

Completion Date: 8/10/04

Depth (ft.)	Elevation (ft. msl)	Temporary Monitoring Well Completion Details	Lithologic Symbol	Lithologic Description	Core Recovery (%)	Sample Type	SPT Tons/Sq. Ft.							
							1	2	3	4				
21	549			Same as above.		G								
22	548													
23	547													
24	546													
25	545													G
26	544													
27	543													
28	542													
29	541													
30	540										SILT and CLAY trace sand (fine to medium), brown and olive gray mottling, laminations, moist, firm (LACUSTRINE-2 ZONE)		G	
31	539													
32	538													
33	537		SAND medium, light brown, moist, loose, sub- rounded, well sorted			G								
34	536													
35	535													
36	534													
37	533	36 feet below grade - End of Borehole												
38	532													
39	531													
40	530													

Total Depth (ft.): 36.0

Screen interval (ft. bgs): 4-9,9-14,26-31

Ground Surface (ft. msl): 569.60

Easting (X): 1420698.72

Northing (Y): 429760.53

Drilling Firm: EnviroCore

Drilling Method: Direct-Push

Top of Casing (ft. msl): 569.60

Date Sampled: 8/13/04

Geologist: A.L. Hurley

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Project Name: RCRA Voluntary CA

SOIL BORING: VE535

Project No: 100.58.19

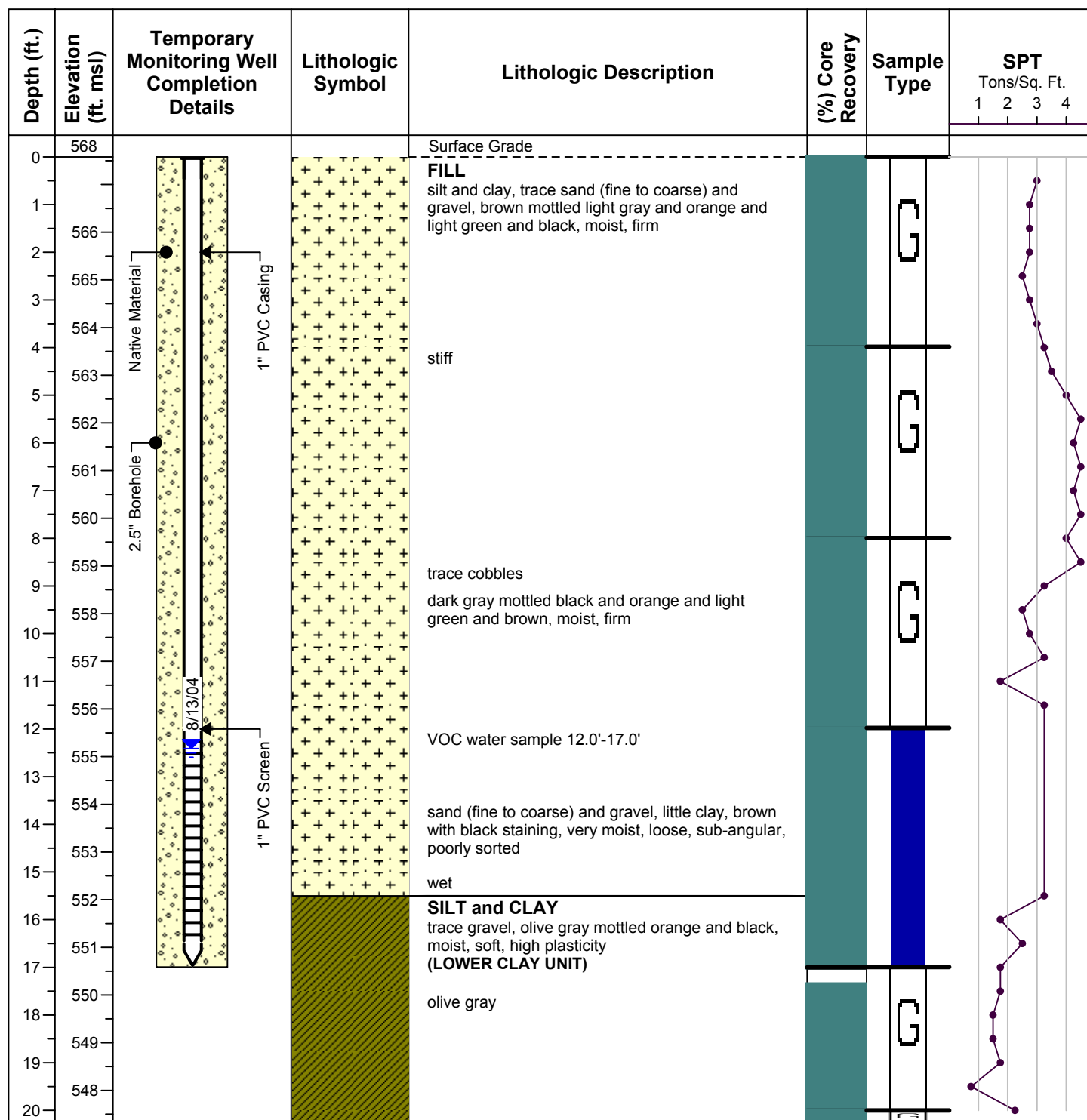
Location: East Side of I-71 Northbound

Project Location: Norwood, Ohio

Start Date: 8/10/04

Client Name: EMD Chemicals Inc.

Completion Date: 8/10/04



Total Depth (ft.): 48.0

Screen interval (ft. bgs): 12.0-17.0

Ground Surface (ft. msl): 567.58

Easting (X): 1420845.63

Northing (Y): 429798.68

Drilling Firm: EnviroCore

Drilling Method: Direct-Push

Top of Casing (ft. msl): 567.58

Date Sampled: 8/13/04

Geologist: A.L. Hurley

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SOIL BORING: VE535

Project No: 100.58.19





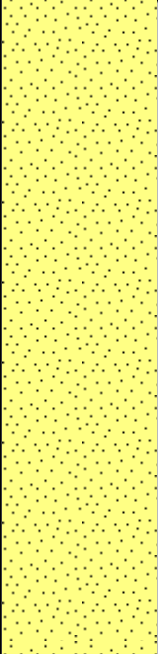
Location: East Side of I-71 Northbound

Project Location: Norwood, Ohio

Start Date: 8/10/04

Client Name: EMD Chemicals Inc.

Completion Date: 8/10/04

Depth (ft.)	Elevation (ft. msl)	Temporary Monitoring Well Completion Details	Lithologic Symbol	Lithologic Description	Core Recovery (%)	Sample Type	SPT Tons/Sq. Ft.			
							1	2	3	4
21	547			Same as above.		G				
22	546									
23	545									
24	544									
25	543			firm						
26	542									
27	541									
28	540									
29	539									
30	538									
31	537			SILT and CLAY trace sand (fine), olive gray, laminations, wet, medium stiff (LACUSTRINE-2 ZONE)		G				
32	536			SAND medium, light gray, slightly moist, loose, well rounded, well sorted						
33	535									
34	534									
35	533									
36	532									
37	531									
38	530									
39	529									
40	528									

Total Depth (ft.): 48.0

Screen interval (ft. bgs): 12.0-17.0

Ground Surface (ft. msl): 567.58

Easting (X): 1420845.63

Northing (Y): 429798.68

Drilling Firm: EnviroCore

Drilling Method: Direct-Push

Top of Casing (ft. msl): 567.58

Date Sampled: 8/13/04

Geologist: A.L. Hurley

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Project Name: RCRA Voluntary CA

SOIL BORING: VE535

Project No: 100.58.19

Location: East Side of I-71 Northbound

Project Location: Norwood, Ohio

Start Date: 8/10/04

Client Name: EMD Chemicals Inc.

Completion Date: 8/10/04

Depth (ft.)	Elevation (ft. msl)	Temporary Monitoring Well Completion Details	Lithologic Symbol	Lithologic Description	Core Recovery (%)	Sample Type	SPT Tons/Sq. Ft.			
							1	2	3	4
41	527			Same as above.						
42	526					G				
43	525									
44	524									
45	523			light brown		G				
46	522									
47	521									
48	520									
48	519			48 feet below grade - End of Borehole						
49	518									
50	517									
51	516									
52	515									
53	514									
54	513									
55	512									
56	511									
57	510									
58	509									
59	508									
60										

Total Depth (ft.): 48.0

Screen interval (ft. bgs): 12.0-17.0

Ground Surface (ft. msl): 567.58

Easting (X): 1420845.63

Northing (Y): 429798.68

Drilling Firm: EnviroCore

Drilling Method: Direct-Push

Top of Casing (ft. msl): 567.58

Date Sampled: 8/13/04

Geologist: A.L. Hurley

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Project Name: RCRA Voluntary CA

SOIL BORING: VE536

Project No: 100.58.21

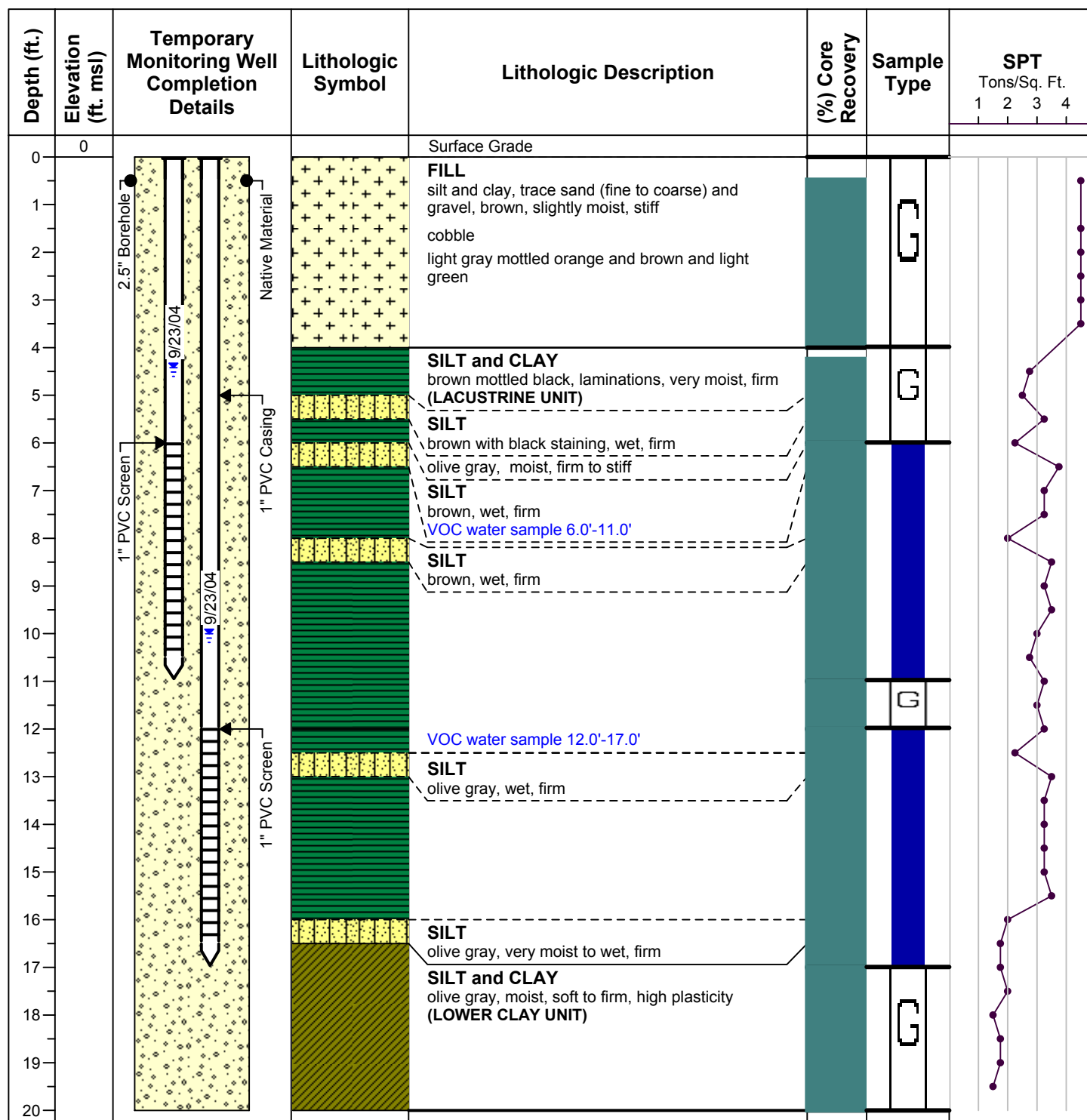
Location: North Side of SR 562 Westbound

Project Location: Norwood, Ohio

Start Date: 9/22/04

Client Name: EMD Chemicals Inc.

Completion Date: 9/22/04



Total Depth (ft.): 20.0

Screen interval (ft. bgs): 6-11, 12-17

Ground Surface (ft. msl):

Easting (X): 0

Northing (Y): 0

Drilling Firm: EnviroCore

Drilling Method: Direct-Push

Top of Casing (ft. msl):

Date Sampled: 9/23/04

Geologist: A.L. Hurley

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Project Name: RCRA Voluntary CA

SOIL BORING: VE537

Project No: 100.58.21

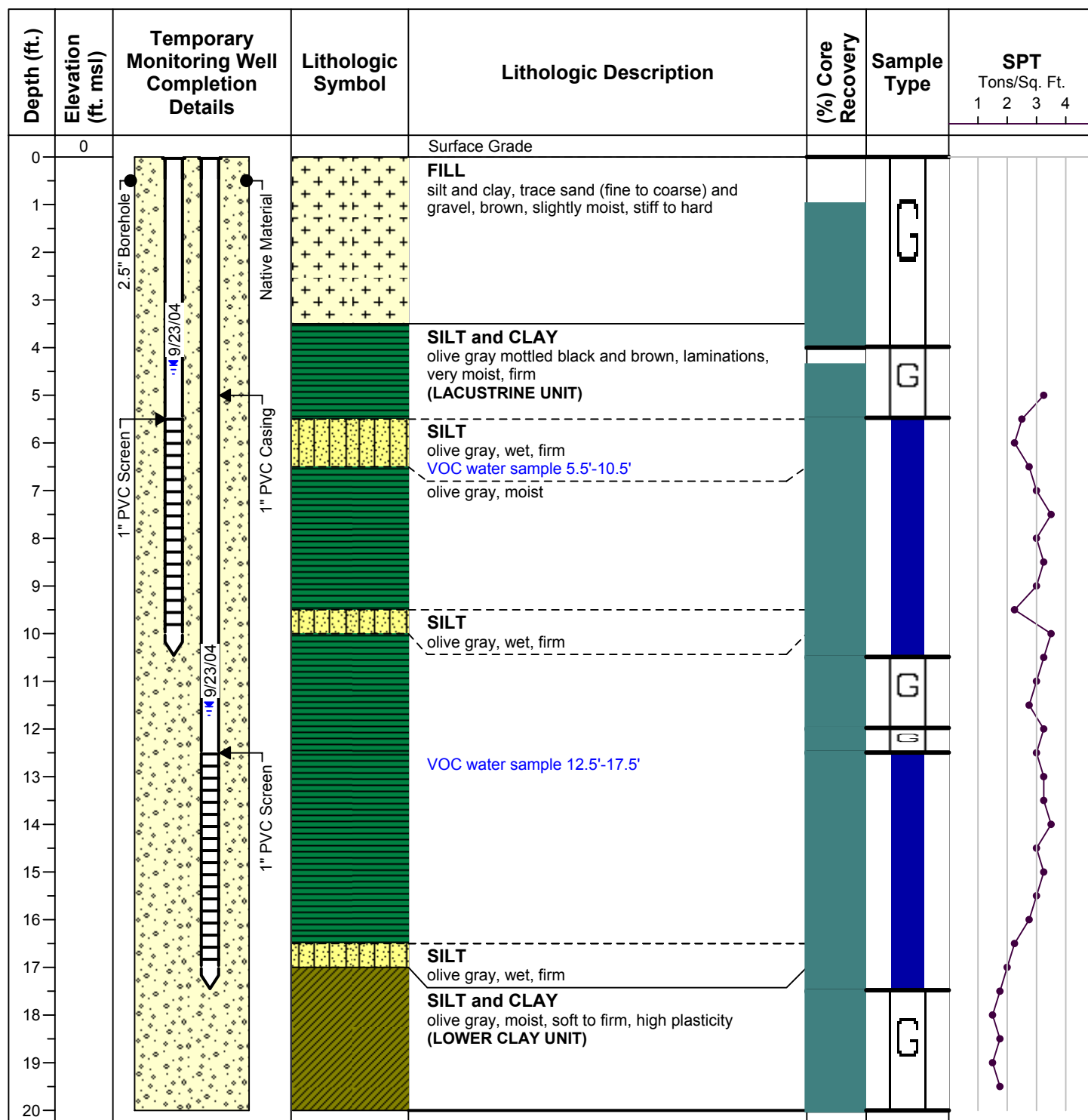
Location: North Side of SR 562 Westbound

Project Location: Norwood, Ohio

Start Date: 9/22/04

Client Name: EMD Chemicals Inc.

Completion Date: 9/22/04



Total Depth (ft.): 20.0

Screen interval (ft. bgs): 5.5-10.5, 12.5-17.5

Ground Surface (ft. msl):

Easting (X): 0

Northing (Y): 0

Drilling Firm: EnviroCore

Drilling Method: Direct-Push

Top of Casing (ft. msl):

Date Sampled: 9/23/04

Geologist: A.L. Hurley

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Project Name: RCRA Voluntary CA

SOIL BORING: VE538

Project No: 100.58.21

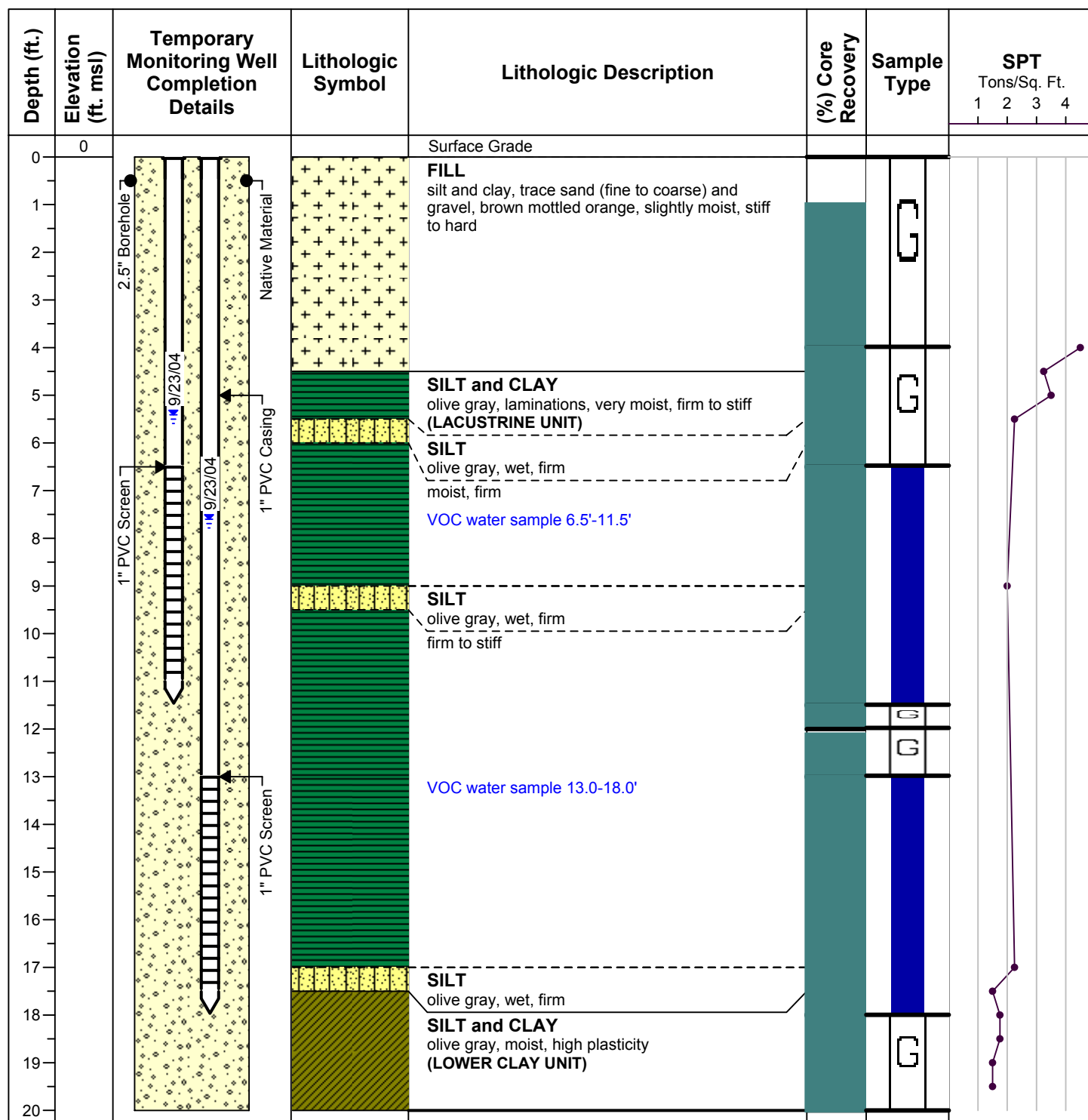
Location: North Side of SR 562 Westbound

Project Location: Norwood, Ohio

Start Date: 9/22/04

Client Name: EMD Chemicals Inc.

Completion Date: 9/22/04



Total Depth (ft.): 20.0

Screen interval (ft. bgs): 6.5-11.5, 13-18

Ground Surface (ft. msl):

Easting (X): 0

Northing (Y): 0

Drilling Firm: EnviroCore

Drilling Method: Direct-Push

Top of Casing (ft. msl):

Date Sampled: 9/23/04

Geologist: A.L. Hurley

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Project Name: RCRA Voluntary CA

SOIL BORING: VE539

Project No: 100.58.21

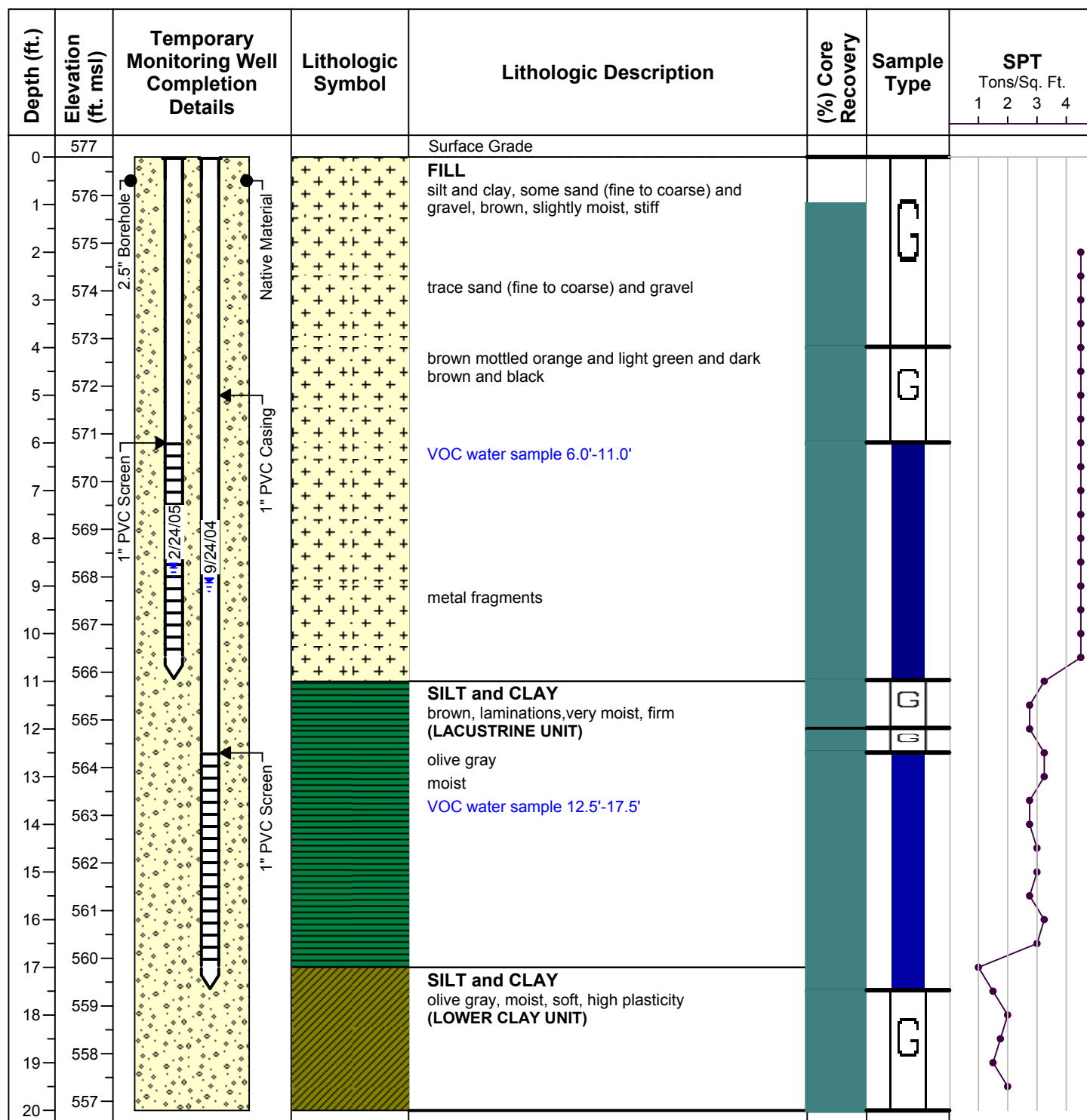
Location: North Side of SR 562 Westbound

Project Location: Norwood, Ohio

Start Date: 9/23/04

Client Name: EMD Chemicals Inc.

Completion Date: 9/23/04



Total Depth (ft.): 20.0

Screen interval (ft. bgs): 12.5-17.5

Ground Surface (ft. msl): 576.81

Easting (X): 1420082.5

Northing (Y): 430127.55

Drilling Firm: EnviroCore

Drilling Method: Direct-Push

Top of Casing (ft. msl):

Date Sampled: 9/24/04

Geologist: A.L. Hurley

**THE PAYNE FIRM, INC.**

Environmental Consultants

Cincinnati, Ohio

Ph: (513) 489-2255

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Project Name: RCRA Voluntary CA

SOIL BORING: VE540

Project No: 100.58.21

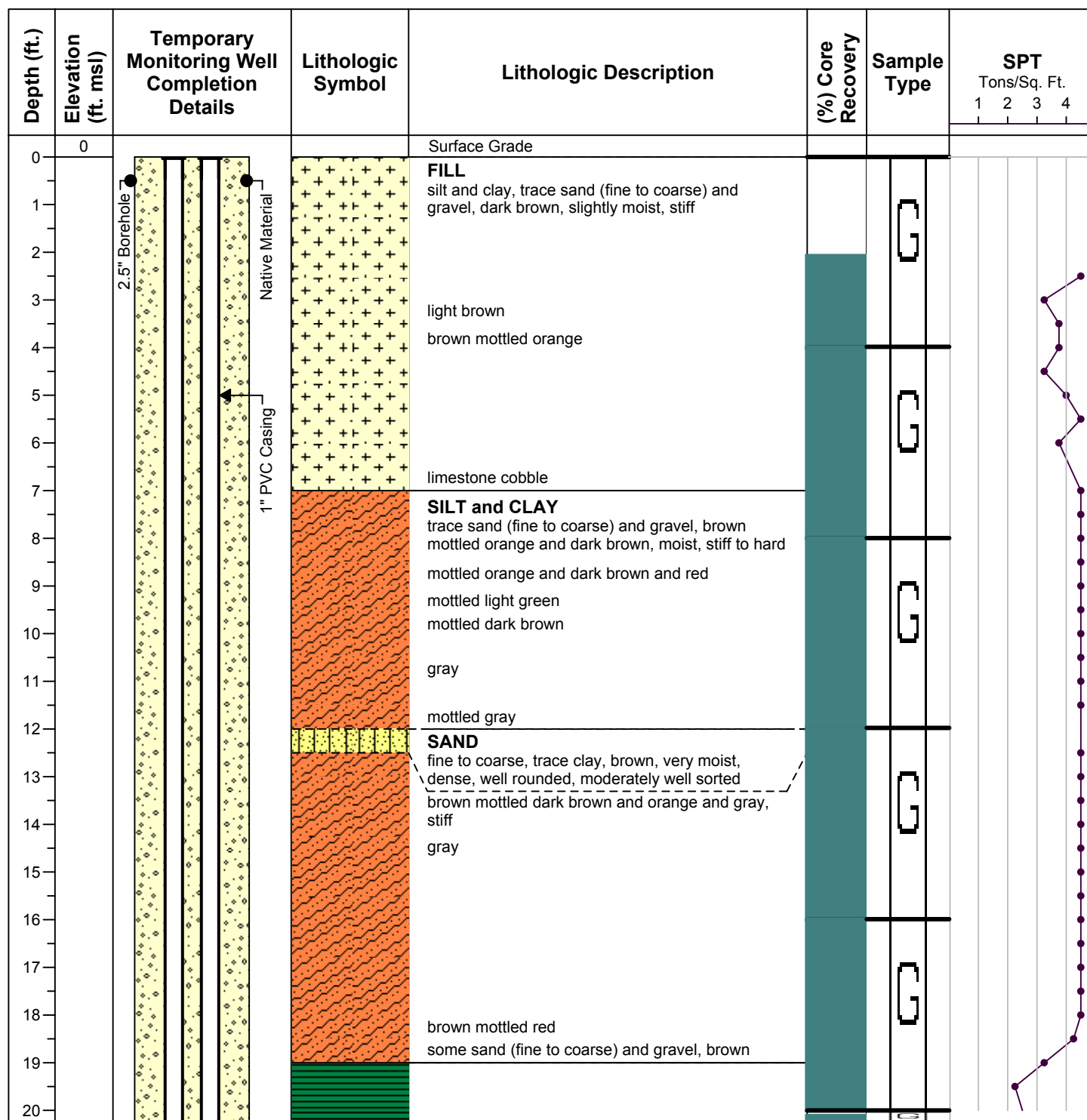
Location: West Ravine Area

Project Location: Norwood, Ohio

Start Date: 9/27/04

Client Name: EMD Chemicals Inc.

Completion Date: 9/27/04



Total Depth (ft.): 44.0

Screen interval (ft. bgs): 21-26, 35.5-40.5

Ground Surface (ft. msl):

Easting (X): 0

Northing (Y): 0

Drilling Firm: EnviroCore

Drilling Method: Direct-Push

Top of Casing (ft. msl):

Date Sampled: 9/28/04

Geologist: A.L. Hurley

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Project Name: RCRA Voluntary CA

SOIL BORING: VE540

Project No: 100.58.21

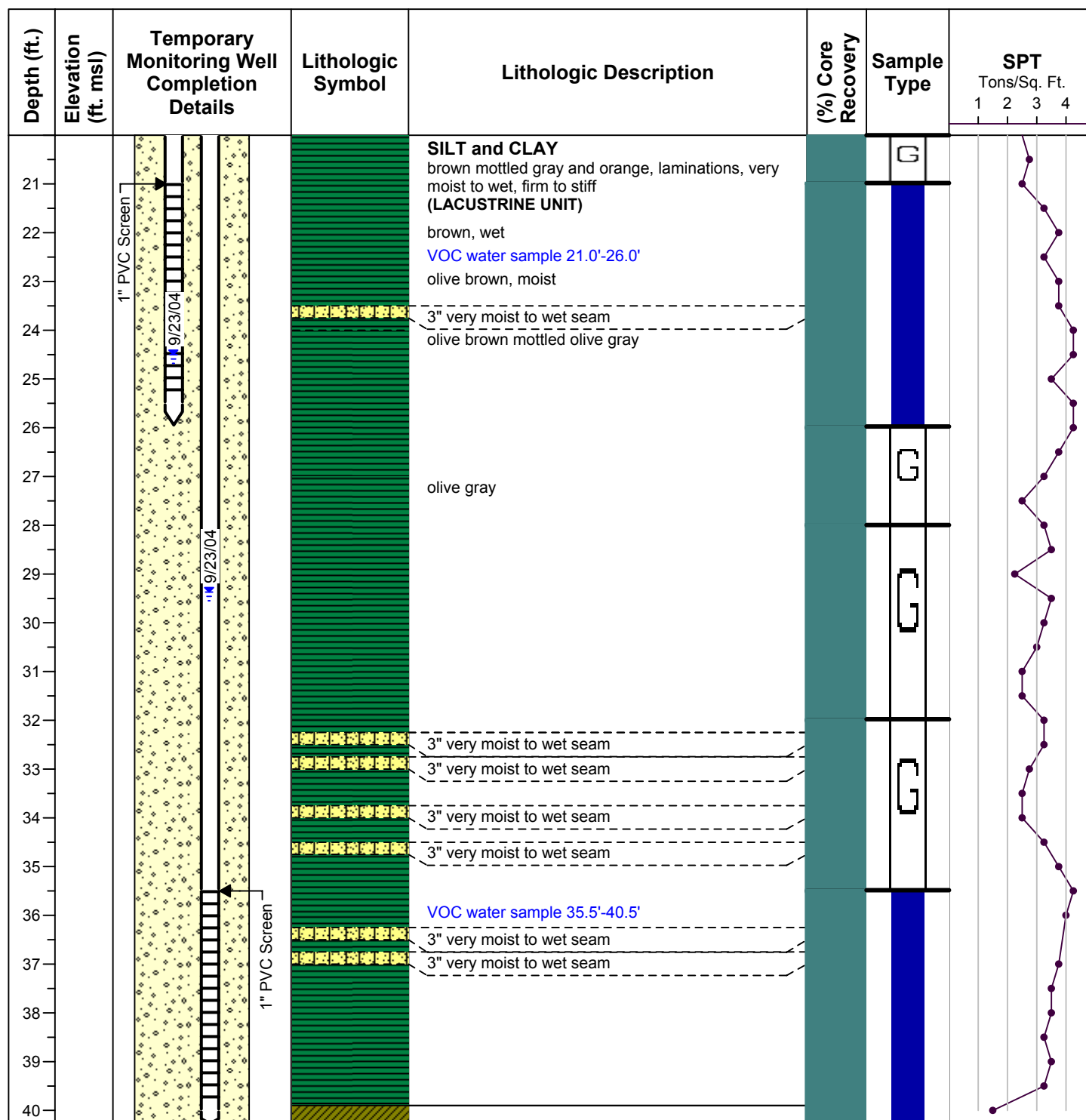
Location: West Ravine Area

Project Location: Norwood, Ohio

Start Date: 9/27/04

Client Name: EMD Chemicals Inc.

Completion Date: 9/27/04



Total Depth (ft.): 44.0

Screen interval (ft. bgs): 21-26, 35.5-40.5

Ground Surface (ft. msl):

Easting (X): 0

Northing (Y): 0

Drilling Firm: EnviroCore

Drilling Method: Direct-Push

Top of Casing (ft. msl):

Date Sampled: 9/28/04

Geologist: A.L. Hurley

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Project Name: RCRA Voluntary CA

SOIL BORING: VE540

Project No: 100.58.21





Location: West Ravine Area

Project Location: Norwood, Ohio

Start Date: 9/27/04

Client Name: EMD Chemicals Inc.

Completion Date: 9/27/04

Depth (ft.)	Elevation (ft. msl)	Temporary Monitoring Well Completion Details	Lithologic Symbol	Lithologic Description	Core Recovery (%)	Sample Type	SPT Tons/Sq. Ft.			
							1	2	3	4
41				SILT and CLAY olive gray, moist, soft to firm, high plasticity (LOWER CLAY UNIT)						
42										
43										
44										
45				44 feet below grade - End of Borehole						
46										
47										
48										
49										
50										
51										
52										
53										
54										
55										
56										
57										
58										
59										
60										

Total Depth (ft.): 44.0

Screen interval (ft. bgs): 21-26,35.5-40.5

Ground Surface (ft. msl):

Easting (X): 0

Northing (Y): 0

Drilling Firm: EnviroCore

Drilling Method: Direct-Push

Top of Casing (ft. msl):

Date Sampled: 9/28/04

Geologist: A.L. Hurley

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Project Name: RCRA Voluntary CA

SOIL BORING: VE541

Project No: 100.58.21

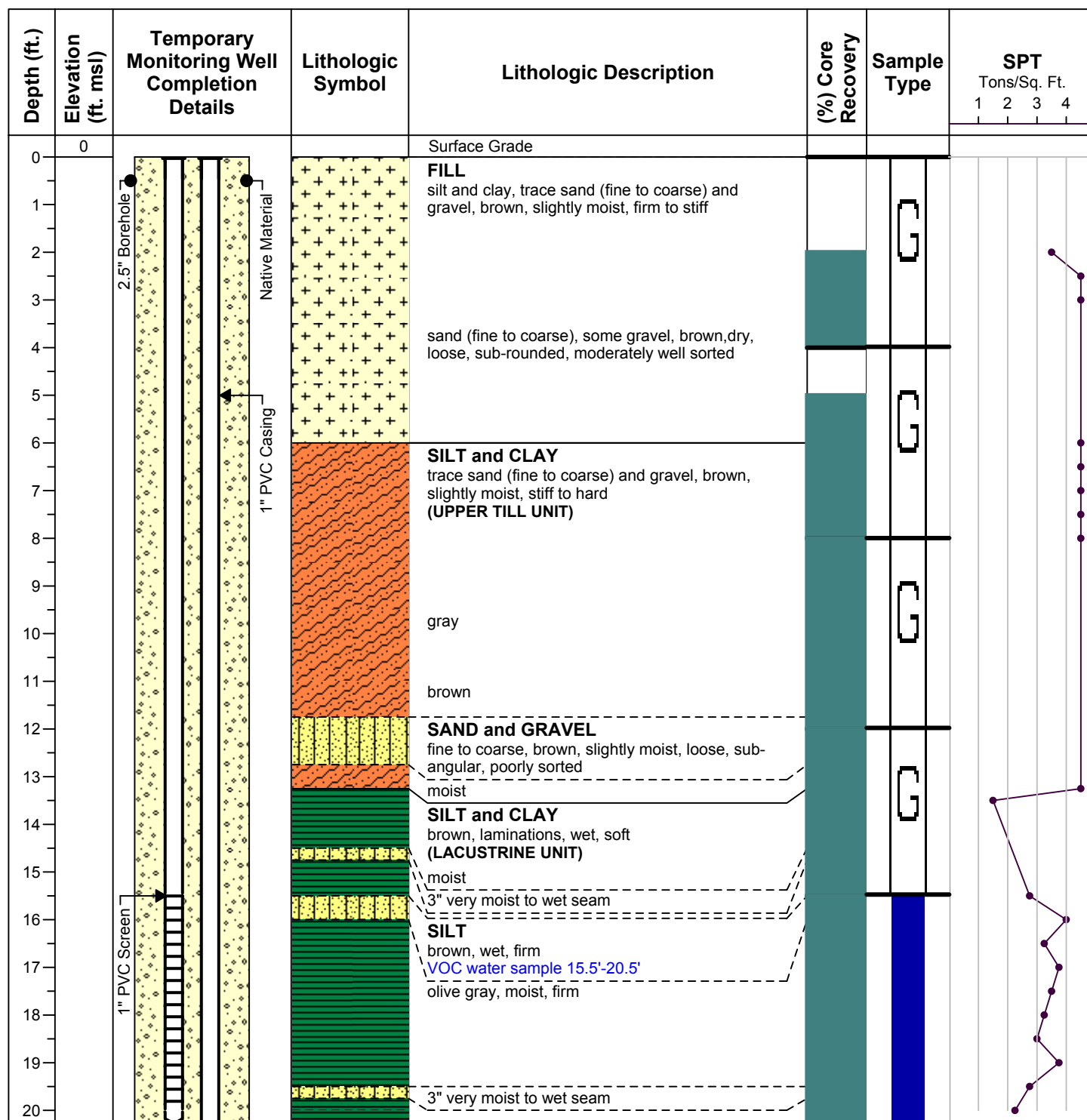
Location: West Ravine Area

Project Location: Norwood, Ohio

Start Date: 9/27/04

Client Name: EMD Chemicals Inc.

Completion Date: 9/27/04



Total Depth (ft.): 36.0

Drilling Firm: EnviroCore

Screen interval (ft. bgs): 15.5-20.5, 26.5-31.5

Drilling Method: Direct-Push

Ground Surface (ft. msl):

Top of Casing (ft. msl):

Easting (X): 0

Date Sampled: 9/28/04

Northing (Y): 0

Geologist: A.L. Hurley

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Project Name: RCRA Voluntary CA

SOIL BORING: VE541

Project No: 100.58.21

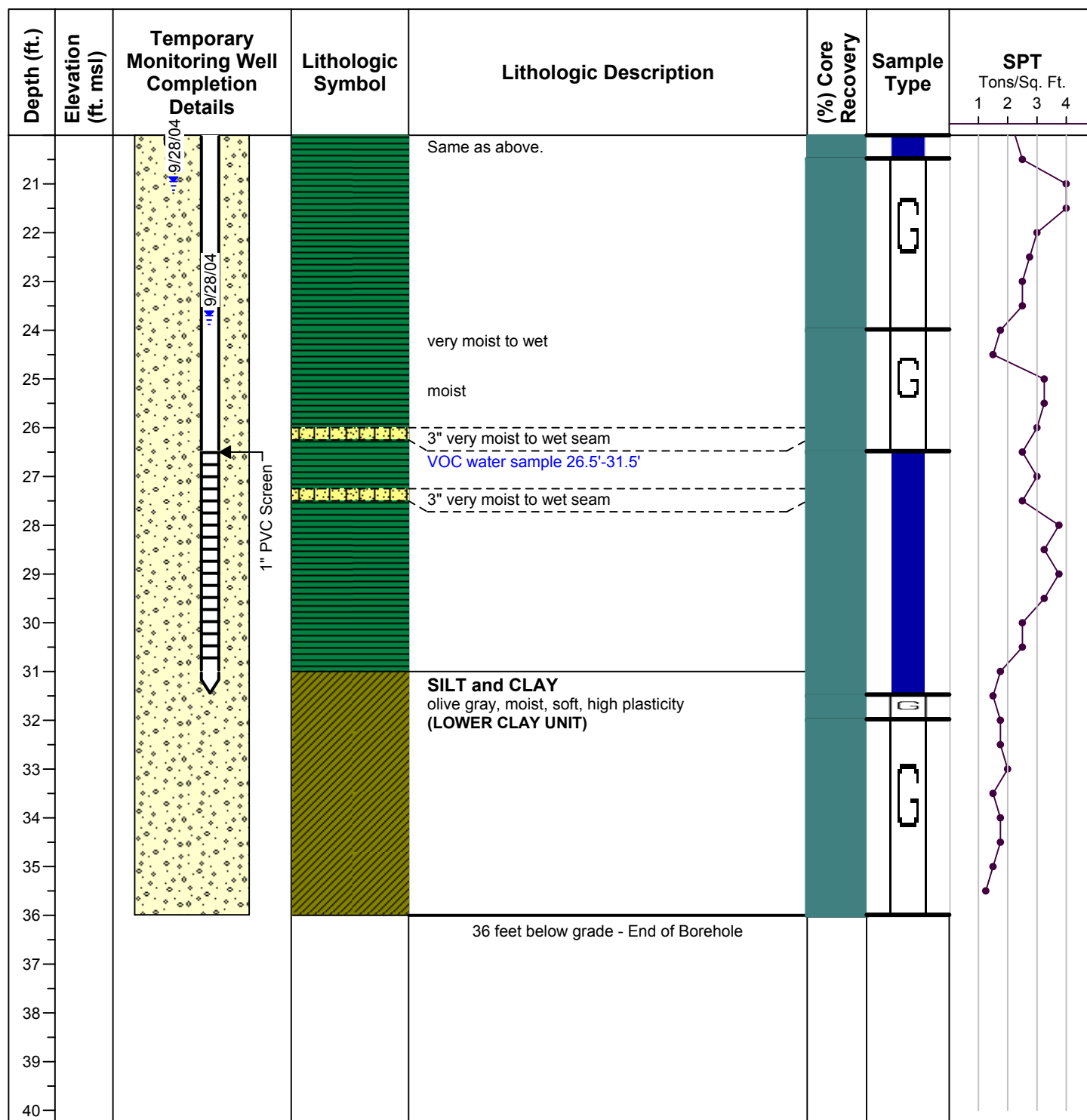
Location: West Ravine Area

Project Location: Norwood, Ohio

Start Date: 9/27/04

Client Name: EMD Chemicals Inc.

Completion Date: 9/27/04



Total Depth (ft.): 36.0

Drilling Firm: EnviroCore

Screen interval (ft. bgs): 15.5-20.5, 26.5-31.5 Drilling Method: Direct-Push

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Ground Surface (ft. msl):

Top of Casing (ft. msl):

Easting (X): 0

Date Sampled: 9/28/04

Northing (Y): 0

Geologist: A.L. Hurley

Project Name: RCRA Voluntary CA

SOIL BORING: VE542

Project No: 100.58.29

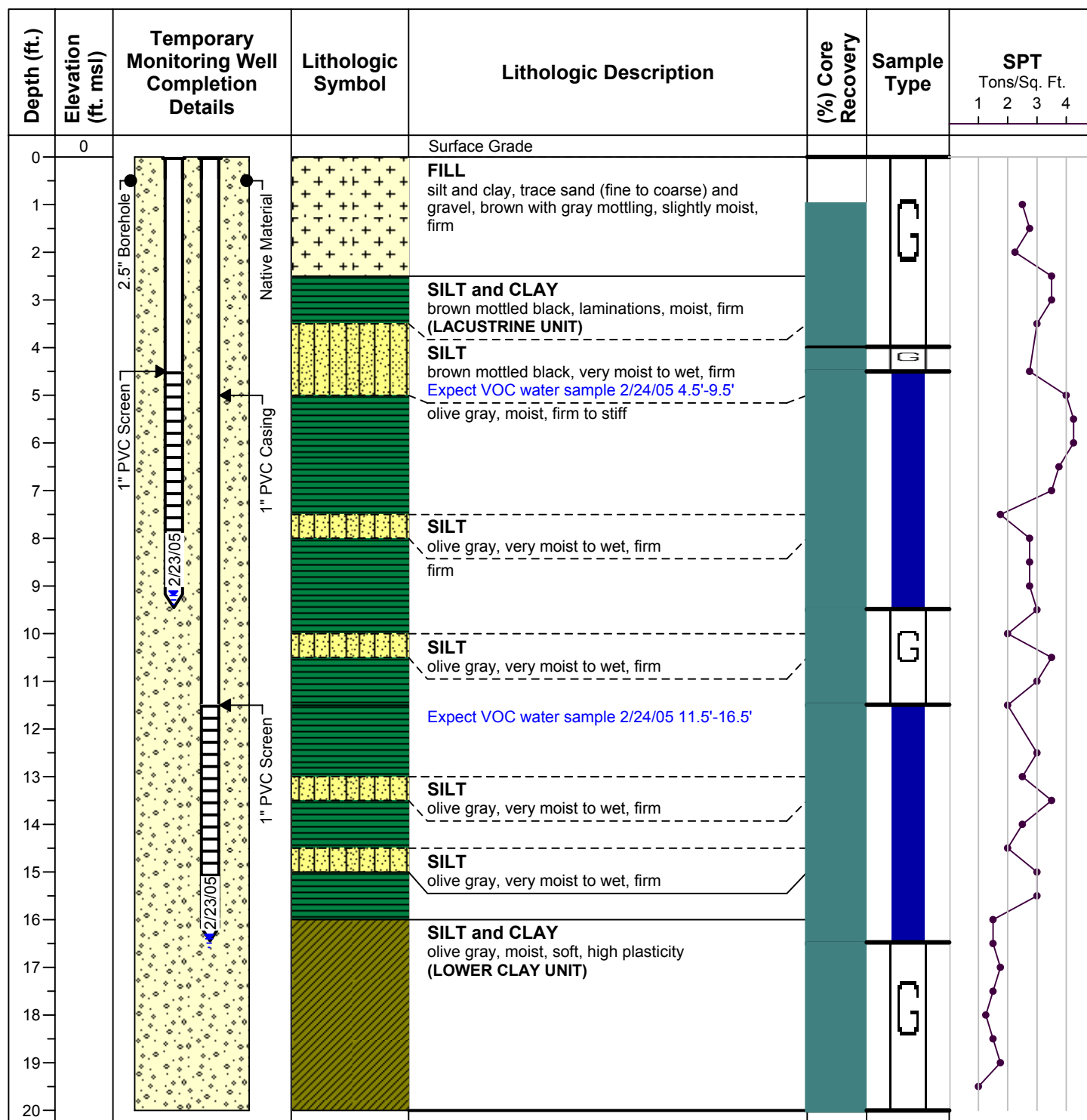
Location: North Side of SR 562 Westbound

Project Location: Norwood, Ohio

Start Date: 2/23/04

Client Name: EMD Chemicals Inc.

Completion Date: 2/23/04



Total Depth (ft.): 20.0

Screen interval (ft. bgs): 4.5-9.5, 11.5-16.5

Ground Surface (ft. msl):

Easting (X): 0

Northing (Y): 0

Drilling Firm: EnviroCore

Drilling Method: Direct-Push

Top of Casing (ft. msl):

Date Sampled: 2/24/05

Geologist: A.L. Hurley

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